VIDEO INTERCOM SYSTEM

USER MANUAL

ES-V600

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Installation

Guide

Features & Specifications

Features

- Color 7-inch TFT LCD Screen
- Dual communication & Call Transfer
- Door Release
- Play TV/MUSIC
- Supports 2 cameras and 4 Monitors
- Monitor/Intercom/Broadcast
- Time/Volume/Brightness/Contrast/Color controls
- Hands free surface/flush mounted

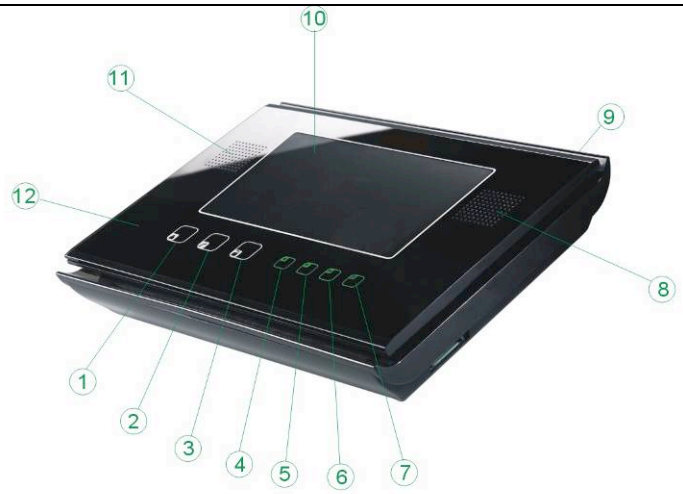
Technical Specifications:

Display screen:	color 7-inch TFT LCD
Resolution:	> 400 TV lines
Scan frequency:	15,625Hz (H) × 50Hz (V)
Voltage:	18VDC, 800mA (nominal)
Video Input:	75ς, 1Vp-p
Power Consumption:	1.5w ~ 12 w
Wiring Mode:	4 wires，polar
Dimensions:	260mm（W）× 195mm（H）× 44mm（D）

Doorbell/Camera

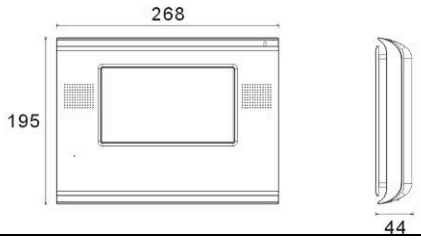
Camera:	1/3 inch or 1/4 inch color
Resolution:	420 TV lines
Video output:	75ς, 1Vp-p
View angle:	68-degree wide-angle camera
Min illumination:	0 Lux
Night Vision:	3 LEDs (infrared)
Voltage:	12VDC
Power Consumption:	2w

Monitor Description & Button Map



1 ----------Answer/Monitor
2 ----------Call transfer/Broadcast/Intercommunication
3 ----------Door Release
4 ----------Adjust button(left)
5 ----------Adjust button(right)
6 ----------Off button
7 ----------Image capture/Menu Switch
8 ----------Speaker
9 ----------Indicator
10 ----------7 inch Touch-screen
11 ----------Speaker
12 ----------Microphone

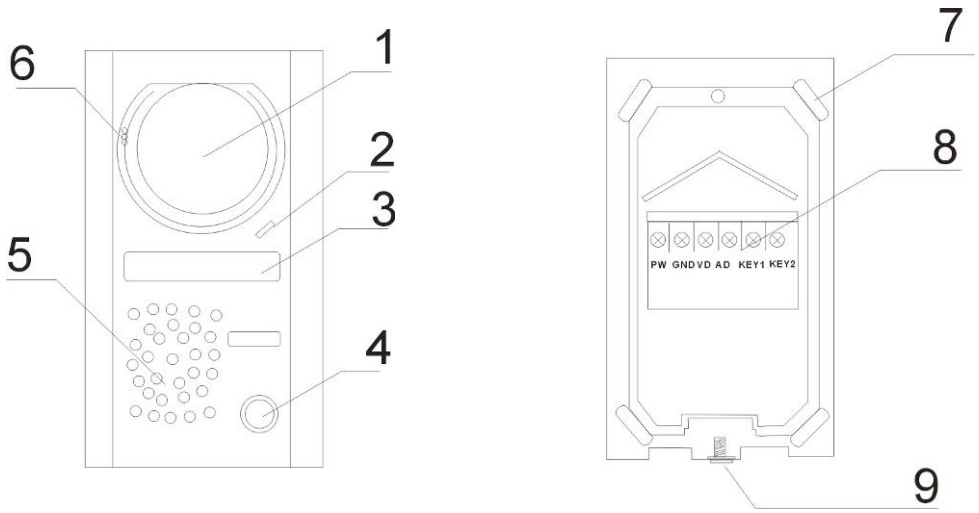
Dimension



Descriptions of Doorbell/Camera

Model No.: ES-VC2

Surface-mounted, Zinc Housing, Color Camera, LED Night vision, Water-proof, Anti-sabotage, Name Plate



1. Camera Lens
2. Microphone
3. Indicator/Name Plate
4. Call button
5. Speaker
6. Night Vision LEDs
7. Screws Holes
8. Cable Terminals
9. Screw for fixing Face Plate and Main Body

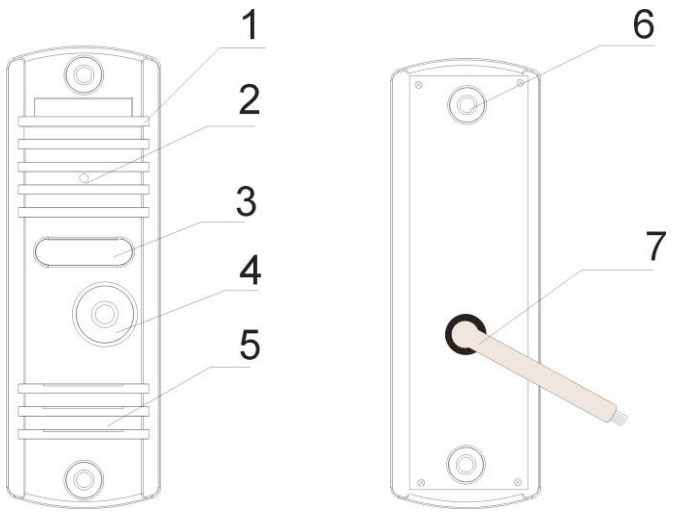
Descriptions for Cable terminals：

- PW： (RED)+ (positive) voltage for doorbell/camera
- GND：(BLK) power supply ground for doorbell/camera
- VD： (YEL) video image signal transmitting line
- AD： (WHITE) audio and control lines
- KEY1/KEY2： (BRWN) door lock/gate latch release

Model No.: ES-VBIT & ES-VCIT

Surface or Flush mounted, Aluminium Housing,

Pinhole Color (VC1T) or B/W (VB1T) Camera, LED Night vision, Water-proof, Anti-sabotage

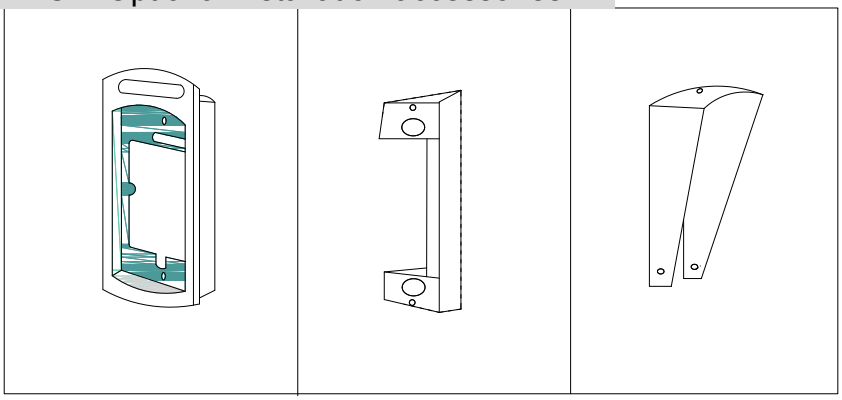


1. Microphone
2. Camera
3. IR LEDs
4. Doobell/Call button
5. Speaker
6. Screw Hole
7. Cable

Connection interface description：

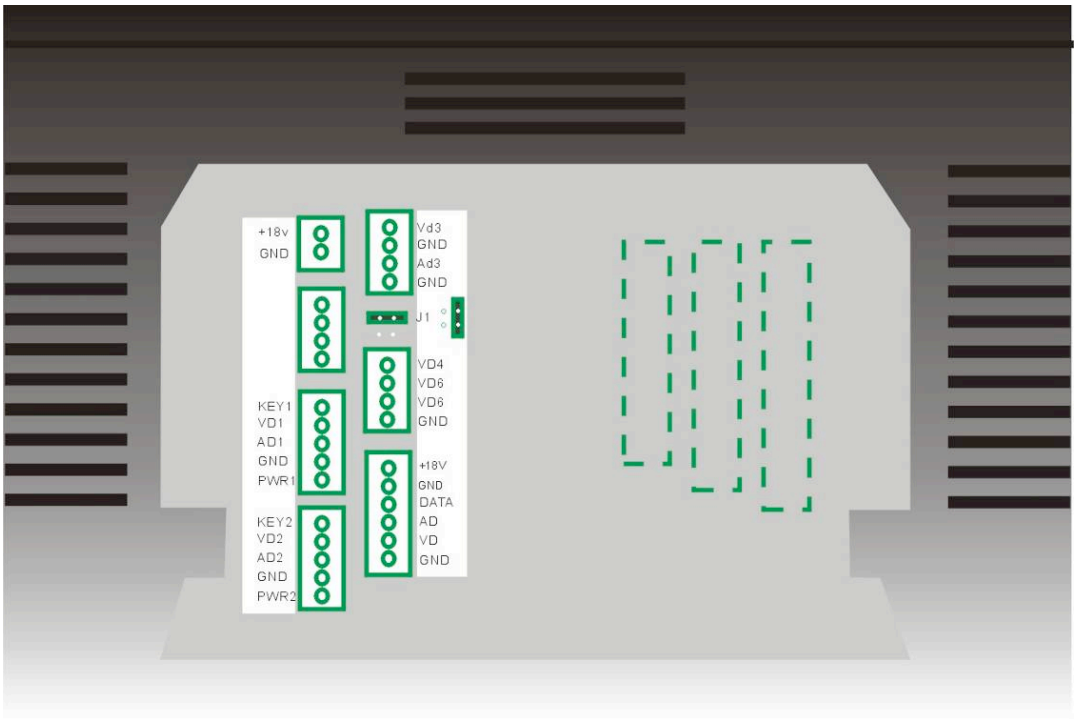
- PW：(RED) + (positive) voltage for doorbell/camera
- GND：(BLK) power supply ground for doorbell/camera
- VD： (YEL) video image signal transmitting line
- AD： (WHITE) audio and control lines
- KEY1/KEY2： (BRWN) door lock/gate latch release interface

ES-VBIT/VCIT Optional installation accessories：



Above: Flush mount back-box, Wall bracket, Rain deflector cover

Wiring Diagrams and Schematics



Connection block CN1：

18V (RED), GND (BLK)：Terminals for Power Supply Input

Connection block CN3：

,KEY1+(SDOOR1) (BRWN)、 VD1 (YEL)、 AU1 (W)、 GND (BLK) 、PWR1 (RED)

Terminals for Power Unlock / Video / Audio / Ground / supply for the Doorbell / camera1.

Connection block CN4：

,KEY1+(SDOOR1) (BRWN)、 VD1 (YEL)、 AU1 (W)、 GND (BLK)、PWR1 (RED)

Terminals for Power Unlock / Video / Audio / Ground / supply for the Doorbell / camera1.

Connection block CN5：

Standby Block

VD3,GND,AD3,GND：

Terminals for Extension Audio / Ground / Extension Video / Ground

J1: 75R jump line

Connection block CN6：

VD4,VD5,VD6,GND：

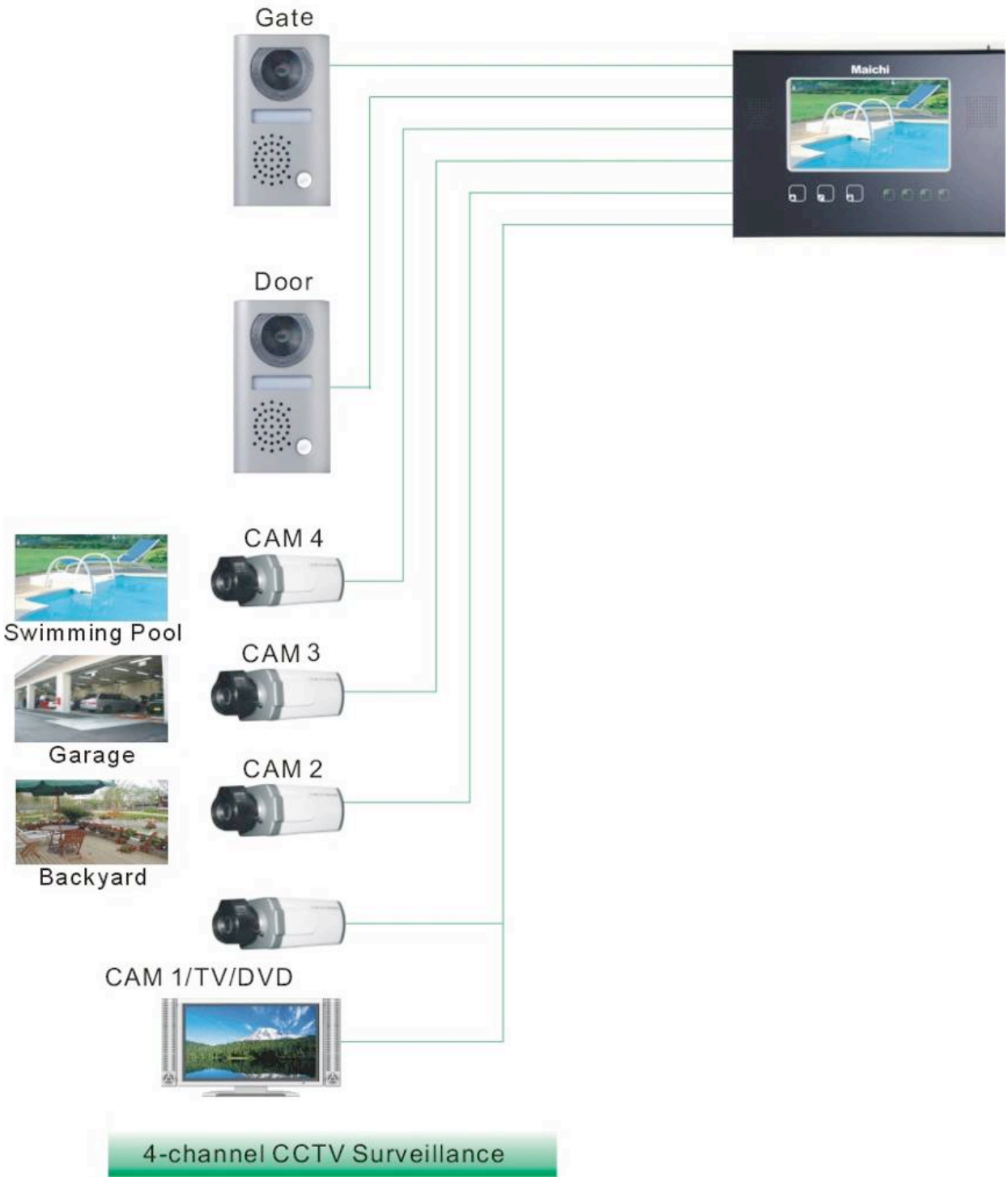
Terminals for Extension Video / GND

Connection block CN7：

+18V, GND, DATA, AU, VD, GND：

Terminals for Power+/ Power Ground / Data / Audio / Video / Video Ground

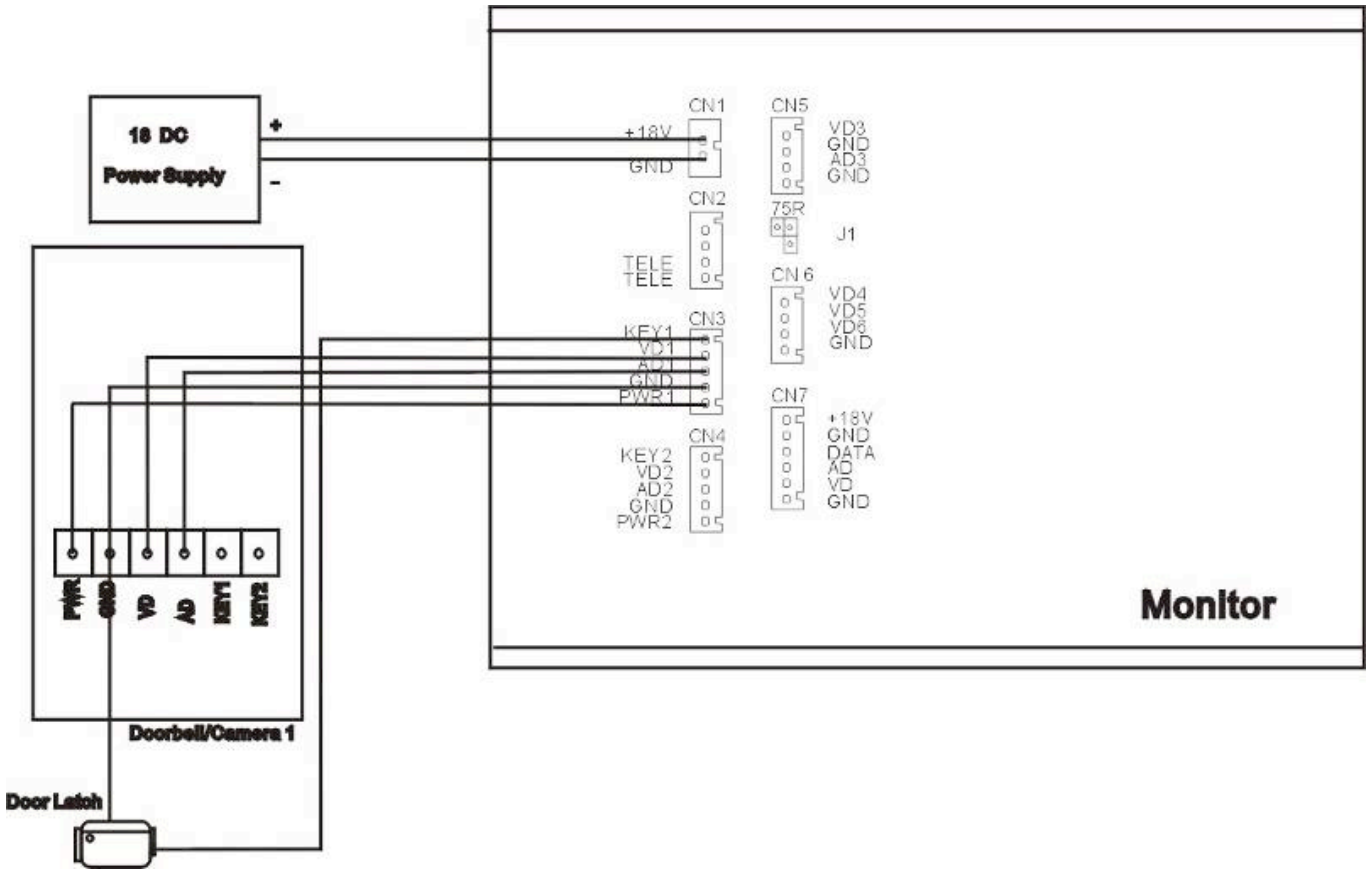
SYSTEM SCHEMATICS



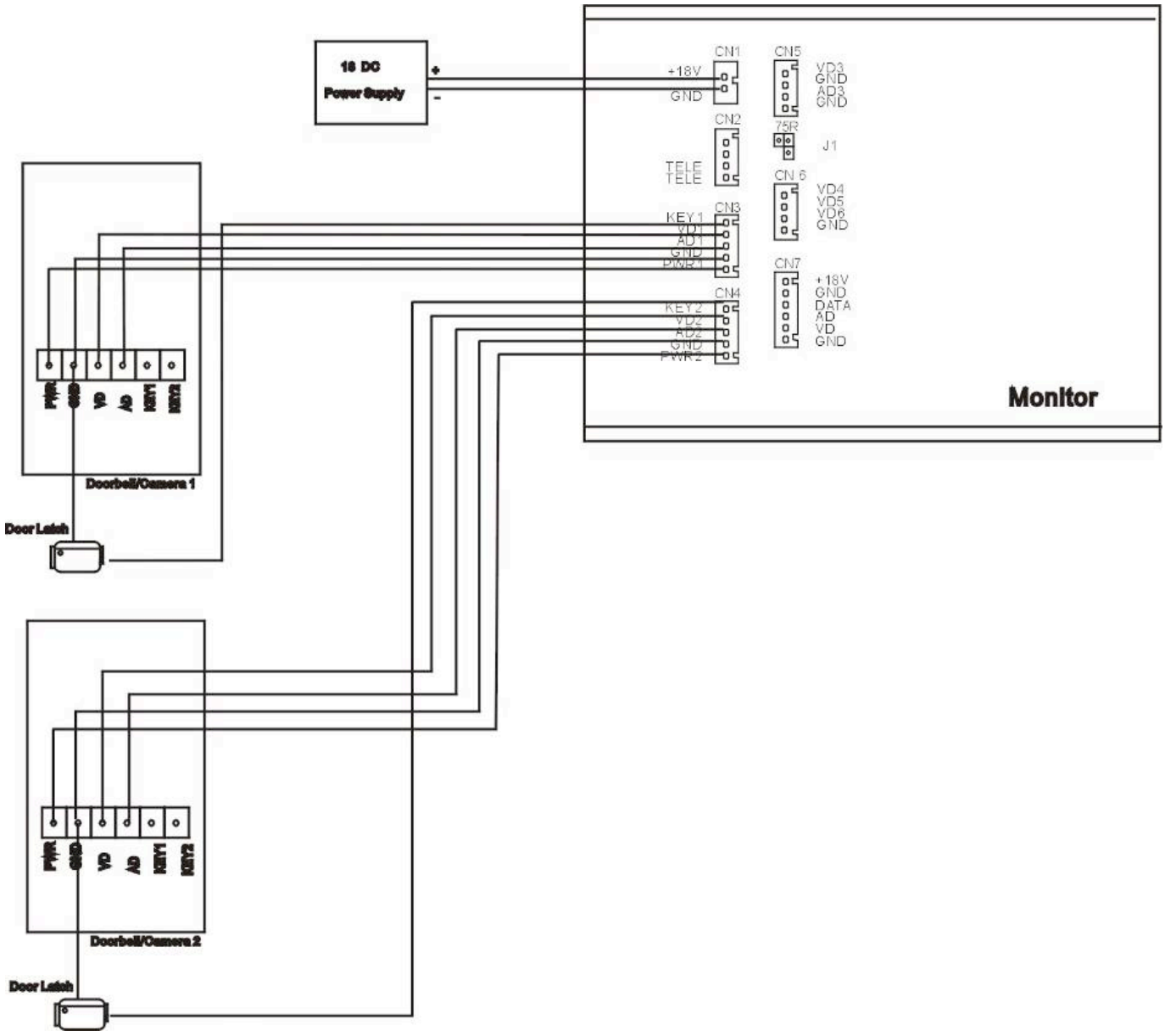
2 Cameras, 2 Latches

Monitors

WIRING DIAGRAMS

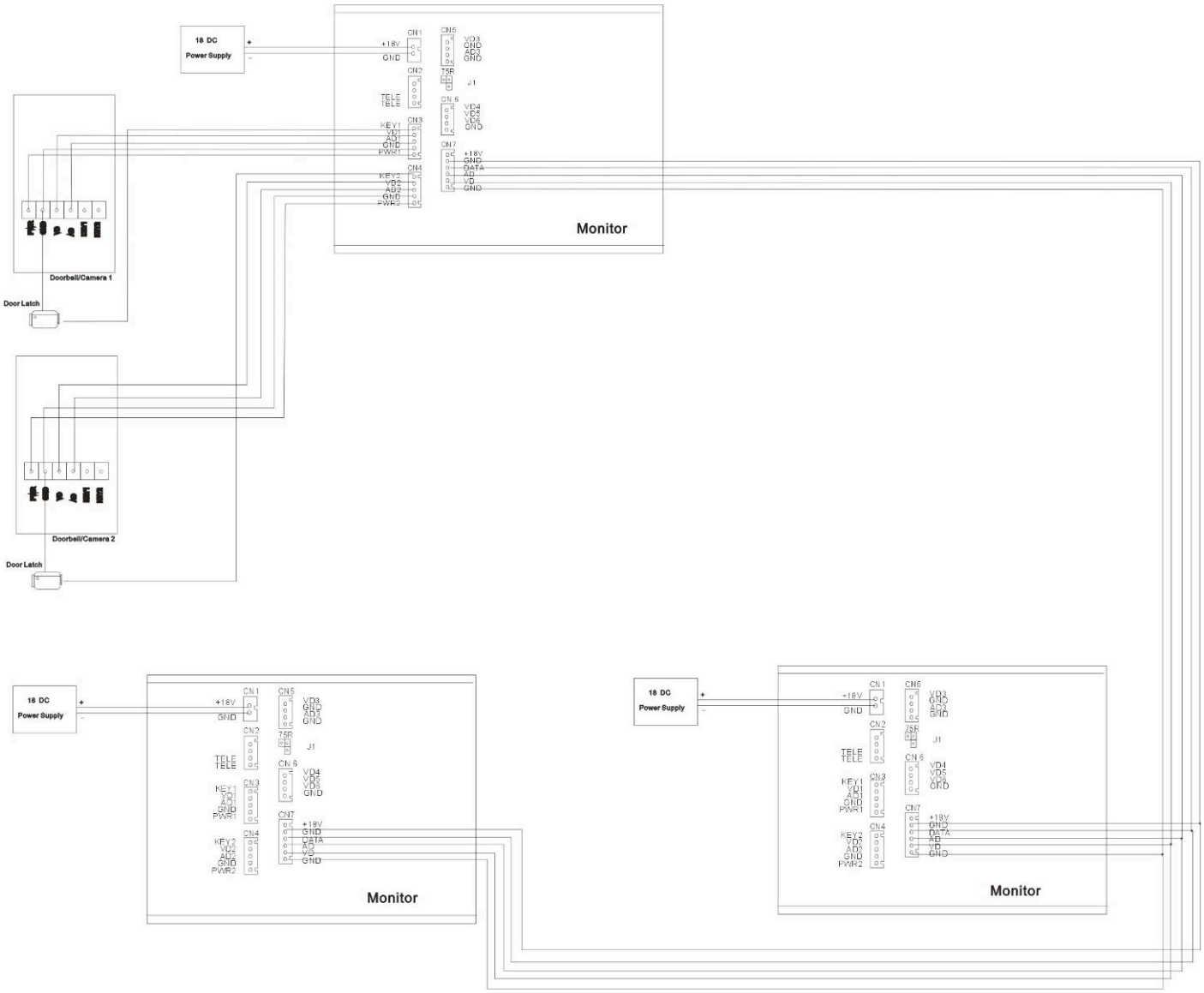


1 Camera, 1 Latch
1 Monitor



2 Cameras, 2 Latches

1 Monitor



2 Cameras, 2 Latches
Multiple Monitors

INSTALLATION

Single Monitor Installations Instruction:

- Refer to the appropriate wiring diagram above.
- Make sure you are using the right cables.
- Consider placement of item carefully with regard to user height and ability to reach controls.
- Run cable through bracket, then attach bracket to wall.
- Refer to appropriate wiring diagram above and connect cable(s) to unit.
- Install the indoor monitor on the wall as shown below.

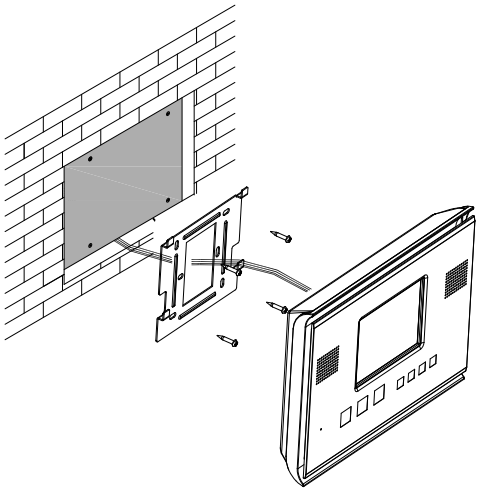


Figure 1

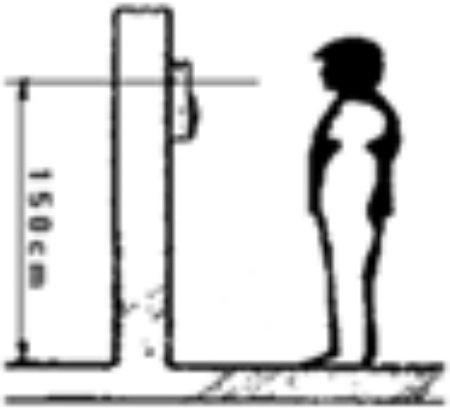
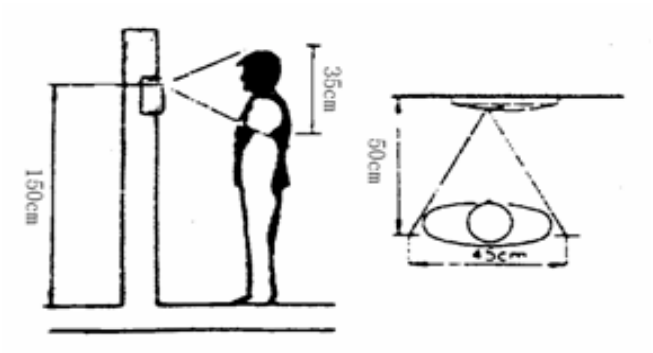


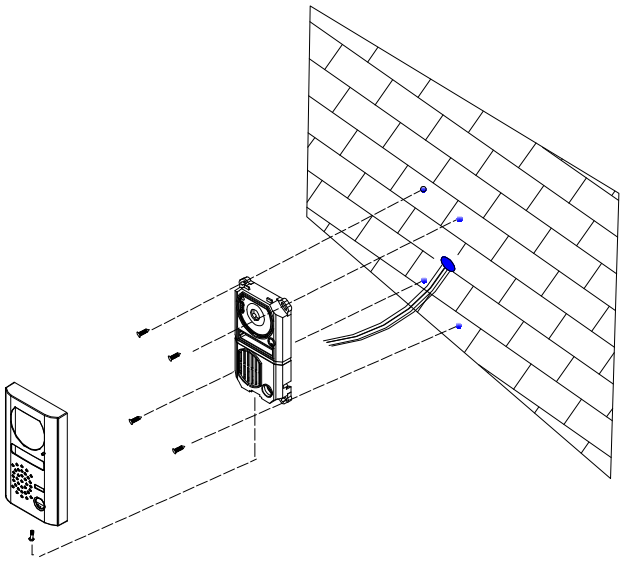
Figure 2

Single Doorbell Camera Installations Instruction:

- Carefully consider positioning of the doorbell camera. We recommend testing the position with the indoor station prior to making permanent attachment.

  - Consider lighting factors and position of sun, and color/brightness of the background behind the visitor. These factors will affect video quality. Remember some of these factors may change during the day or season.





NOTE: When the distance between indoor monitors and doorbells is less than 30 meters, you can use 22 gauge 4 conductor shielded cable. If distance is over 30 meters, please add one RG59 coaxial wire with 4 wire-shielded cable to ensure video stability.

Video coaxial cable

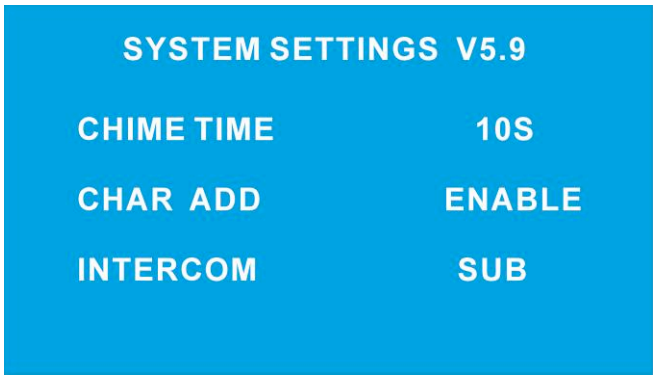
4-core shielded cable

Operation

Guide

System Settings – See MONITOR DESCRIPTION & BUTTON MAP

At standby mode, press and hold **"Image capture" button** for 5 seconds to get into the set-up mode as below.



1st line: Chime Duration Time
2nd line: Character Add: Enable/Disable
"DOOR1/DOOR2" on monitor screen)
3rd line: Main/Sub Multiple Monitor set up
HOLD button 6 on MAIN or SUB for 3 seconds

At this point, pressing **"Image capture" button** will move to the next value until Intercom/Main menu. Use "◄►" (button 5) to select Main or Sub. When enter main panel

selection。When cursor is at "MAIN"status, press button two seconds and then you will enter the second menu interface :

1nd line: Setup doorbell active numbers
2rd line: Setup video extending channels numbers

CHIME TIME SET: Chime Duration

The default chime duration is 30 seconds. To adjust this time:
When the curser flashes at the first character of date, keep pressing **"Image capture" button** to go to the chime duration setting. Press **" ◄ ► " button** to adjust the chime time. The chime duration is from 10 – 90 seconds.

CHAR ADD SET :

At standby mode, press **"Image capture" button** to get into the main menu setting interface. Move the cursor to the 5th line, press **" ◄ ► " BUTTON** to choose Enable or Disable. "Enable" will display the character "DOOR1" or "DOOR 2". If choose "Disable", the monitor screen will not display any characters.

INTERCOM SUB or MAIN Set:

If more than one monitor is installed, one monitor is set as "MAIN-1". Additional monitors should be set as "SUB".

DOOR NUM: Doorbell channel active number function :

“DOOR NUM” setting can support maximum 2 doorbell channels for surveillance. With one doorbell only, you only need to set “DOOR NUM 1”. For two doorbells you need to set “DOOR NUM 2” to activate both 2 doorbell cameras. E.g. DOOR NUM 2 Press **“◄ ►” button** to modify number.

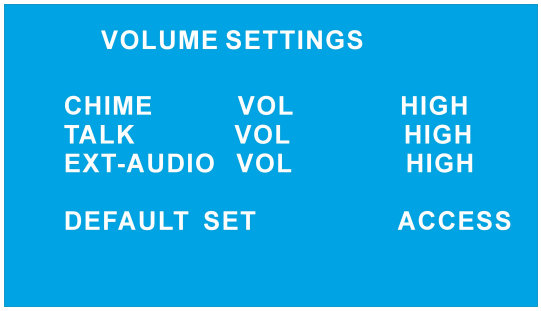
Press **“Image capture” button** for 2 seconds to return to the first menu interface, then double click **“off” button** to turn off the screen and save the setting.

CCTV NUM: CCTV surveillance channel number function :

“CCTV NUM” means 4 cameras surveillance image setting, if you don’t need to monitor any camera image, set “CCTV NUM” as “0”. Press **“◄ ►” button** to modify number. The number showed on the screen is the total surveillance number. E.g. CCTV NUM 4 means 4 video channel has been activated.
Press **“Image capture” button** for 2 seconds to return to the first menu interface, then double click **“off” button** to turn off the screen and save the setting.

CHIME VOLUME SET : Chime Volume adjustment

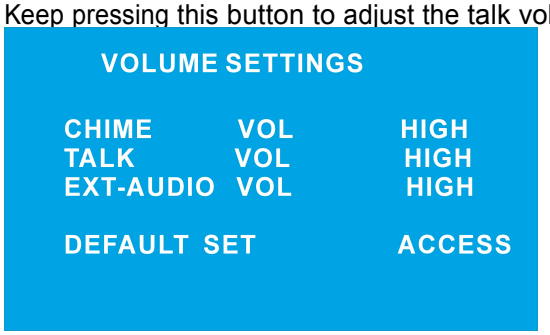
In standby mode, press **“Answer /Monitor” button** for 6 seconds, the blue screen will show the default chime mode. Press **“◄ ►” button** to adjust the chime volume. When the mute function is on, a red LED will light on the monitor and the screen displays the word “mute”.



If there is a call from doorbell camera or other indoor monitor, the receiving monitor remains mute. However, the broadcasting function still works when the mute function activated. Press **“off” button** to turn off the screen, or it will be turned off automatically after 5 seconds without pressing any button.

TALK VOLUME SET: Talk Volume adjustment

In standby mode, press **“Answer /Monitor” button** for 6 seconds. The blue screen will display the current talk volume. Keep pressing this button to adjust the talk volume. E.g. Like figure below:



CHIME VOL：Ringing volume

TALK VOL：Call volume

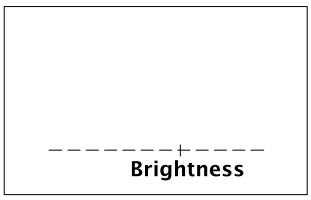
EXT-AUDIO VOL: Extension-Audio Volume

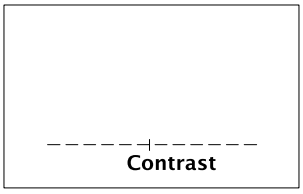
DEFAULT SET：Recover Ex-factory setting

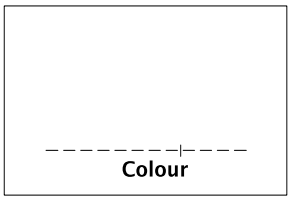
At this mode, with the current setting flashing, press **“Image capture” button** to move adjustment from chime to the talk-setting. The defaulted talk volume is ”HIGH”. Press **“◄ ►” button** to adjust. If talk volume “LOW’ is selected, a green light will be on. Press **“off” button** to save and turn off the screen, or it will turn off automatically after 5 seconds without pressing any buttons.

Brightness/Contrast/Color:

At standby mode, press **"Answer /Monitor" button** to display an image, press**" ◄ ► " button** to adjust the Brightness/Contrast/Color for the image. At monitoring mode, press **" ◄ ► " button** to adjust Brightness. Press **"Image capture" button** to move between Brightness, Contrast, Color Settings.







Function Guide

Call & Unlock Function

When a visitor calls from the doorbell/camera, the visitor's image shows on the monitor screen. Press **"Answer /Monitor" button** to stop the chime.

1) You now have 60 seconds default talking time.
2) During the 60 seconds talking period, you can decide to release the door or not for this visitor. Press and hold the "Unlock" key. The shortest unlock time is 1sec. The Green/Red Indicator will be on when the door is releasing. (Green Light for the Doorbell/Camera1. Red light for the Doorbell/Camera 2.) Door can only be released at answering mode. The door can not be released at any other mode for security reasons. (e.g. accidental pressing).

Intercom Function

In standby mode, press **"Call transfer" button** to initiate a transfer. The receiving monitors will chime until any monitor answers by pressing **"Answer /Monitor" button.**

Call Transfer Function

1) **Direct Transfer:**

To transfer the call to other monitors:

Press **"Call transfer" button** on the monitor. All other monitors in the system will receive your call transferring message. Anyone can press the **"Answer /Monitor" button on any other unit** to talk with the visitor.

2) Broadcasting transfer

When you answer the call, press **"Call transfer" button** and hold. The word "mute" will appear. During this time you may get a chance to ask another person if he/she would like to answer the visitor. Press **"Call transfer" button** again to get into the communication mode.

Broadcasting Function

In standby mode, press and hold **"Call transfer" button** for 2 seconds on any monitors to activate the broadcasting function, once the broadcasting function is activated, you can talk to all other indoor monitors.

Monitoring function:

Press and hold "Monitor" (BUTTON 1) on any monitor will view the outside images from the Doorbell/Camera. Green & Red lights will display for Camera 1 or 2 respectively. The default monitoring time is 30sec. When monitor extension 4

camera channels , press button1 to turn off the screen. At standby mode, keep pressing button1 to monitor door1, door2, video channel1, extension video channel1, extension video channel2, extending video channel3.

/Video Function

ndby mode, press BUTTON 2 on any monitors 3 times to activate the Audio/Video function for listening or watching TV, or monitoring the baby-rooms.

CARE INSTRUCTIONS

1) Always use the recommended cables.
2) To clean, use a damp cloth and gently wipe lens surfaces outwards. Do not use cleaning fluids or solvents.
3) Image distortion may occur if your equipment is mounted too close to magnetic field e.g. Microwaves, TV, Audio equipment or speakers.
4) The Doorbell/Camera should be fitted with an approved weather shield if the position chosen is in direct sunlight, or in contact with rain, snow or irrigation sprinkler systems.
5) Do not open the case beyond the point necessary to install as described in this manual. Doing so may void your warranty. There are NO USER SERVICEABLE PARTS INSIDE.